| i i | ndex | of CI | aims |  |
|-----|------|-------|------|--|
|     |      |       |      |  |
|     |      |       |      |  |
|     |      |       |      |  |

Application/Control No.

10/643,333

Examiner

**BASIL KATCHEVES** 

Applicant(s)/Patent under Reexamination

**GOODWIN ET AL.** 

Art Unit

3633

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

(Through numeral)
Cancelled

Restricted

Non-Elected N Interference

Appeal Α 0 Objected

|          |                            |  |  |  |  |                |              |  |              |  |    |       |          |  |  |          |  |          | L_           | <u> </u>     |          |
|----------|----------------------------|--|--|--|--|----------------|--------------|--|--------------|--|----|-------|----------|--|--|----------|--|----------|--------------|--------------|----------|
|          |                            |  |  |  |  |                |              |  |              |  | ır |       |          |  |  |          |  |          |              |              |          |
| Cla      | im                         | <u>n</u> Date                                    |  |  | •  |                |              |  |              | Cla  | im | Date  |          |  |  |          |  | _        |              |              |          |
| Final    | Original                   | 1826/  |  |  |  |                |              |  |              |  |    | Final | Original |  |  |          |  |          |              |              |          |
|          | 1                          | 7  |  |  |  |                |              |  |              |  |    |       | 51       |  |  |          |  |          |              |              |          |
|          | 2                          | ./   |  |  |  |                |              |  |              |  |    |       | 51<br>52 |  |  |          |  |          |              |              |          |
|          | 2                          |  |  |  |  |                |              |  |              |  |    |       | 53       |  |  |          |  |          |              |              |          |
|          | 4                          | 1  |  |  |  |                |              |  |              |  |    |       | 54       |  |  |          |  |          |              |              | Г        |
|          | 5                          | 7  |  |  |  |                |              |  |              |  |    |       | 55       |  |  |          |  |          | Γ            |              | Γ        |
|          | 6                          | 1  | ,  |  |  |                |              |  |              |  |    |       | 56       |  |  |          |  |          |              |              |          |
|          | 7                          | 1  |  |  |  |                |              |  |              |  |    |       | 57       |  |  |          |  |          |              |              |          |
|          | 8                          | 7  |  |  |  |                |              |  |              |  |    |       | 58       |  |  |          |  |          |              |              |          |
|          | 9                          | 7  |  |  |  |                |              |  |              |  |    |       | 59       |  |  |          |  |          |              |              |          |
|          | 10                         |  |  |  |  |                |              |  |              |  |    |       | 60       |  |  |          |  |          |              |              |          |
|          | 11                         | 7  |  |  |  |                |              |  |              |  |    |       | 61       |  |  |          |  |          |              |              |          |
|          | 12                         | I  |  |  |  |                |              |  |              |  |    |       | 62       |  |  |          |  |          |              |              |          |
|          | 13                         |  |  |  |  |                |              |  |              |  |    |       | 63       |  |  |          |  |          |              | L            | L        |
|          | 14                         | $\sqcap$   |  |  |  |                |              |  |              |  |    |       | 64       |  |  |          |  |          |              |              |          |
|          | 15                         | 1  |  |  |  |                |              |  |              |  |    |       | 65       |  |  |          |  |          | L            |              |          |
|          | 16                         | 5  |  |  |  |                |              |  |              |  |    |       | 66       |  |  |          | L  |          |              |              | L        |
|          | 17                         | П  |  |  |  |                |              | L  |              |  |    |       | 67       |  |  | L        | _  | _        |              |              |          |
|          | 18                         |  |  |  |  |                |              |  |              |  |    |       | 68       |  |  |          |  |          |              |              | L        |
|          | 19                         | 1  |  |  | <u> </u>   |                |              |  |              |  |    |       | 69       |  |  |          | L.   | L        |              | <u> </u>     | L        |
|          | 20                         | N  |  |  |  |                |              |  |              |  |    |       | 70       | Щ  |  |          | L.   | L        |              |              | L        |
|          | 20<br>21                   |  |  | <u> </u>   | _  |                |              |  |              |  |    |       | 71       |  |  |          | _  | _        |              | _            | L        |
| L        | 22<br>23                   | L  |  |  | <u>L</u>   | _              |              |  |              | Ŀ  |    |       | 72       |  |  | _        | _  | <u>L</u> | L_           | <u> </u>     | ┖        |
|          | 2/3                        | <u> </u>   |  |  | _  | L_             |              |  | 乚            |  |    |       | 73       |  |  | <u> </u> | _  | <u> </u> | _            | _            | 1_       |
|          | 1 24                       |  |  |  |  |                | <u> </u>     |  |              | L.   |    |       | 74       | Ш  |  | _        | <u> </u>   | <u> </u> | _            | <u> </u>     | ļ.,      |
|          | 25                         | _  | _  | L.   |  |                | _            |  | _            |  |    |       | 75       |  |  | _        | _  | <u> </u> | 1            | _            | ↓_       |
|          | 26                         |  | <u> </u>   | _  |  |                |              | _  | _            |  |    |       | 76       | _  |  |          | _  | ╙        | <u> </u>     | ļ            | ↓        |
|          | 27                         | ╙  |  |  | <u> </u>   | L_             |              | <u> </u>   | _            | <u>_</u>   |    |       | 77       |  |  |          | <u> </u>   | ļ        | <u> </u>     | ₩            | ⊢        |
| <u> </u> | 28                         | _  | L_   |  |  | <u> </u>       | _            | <b> </b>   | _            |  |    |       | 78       |  |  | ļ        | -  | <u> </u> | ▙            |              | ┡        |
| L        | 29<br>30<br>31<br>32<br>38 | _  | L  |  | <u> </u>   | _              |              | _  | _            | <u> </u>   |    |       | 79       |  |  | _        | <u> </u>   | <u> </u> | ├-           | -            | ⊢        |
| <u> </u> | 30                         |  |  |  | _  | _              |              |  | _            | L  |    |       | 80       |  |  | _        | ļ  |          | <u> </u>     | _            | ┡        |
|          | 31                         |  | _  | _  |  | <u> </u>       | _            |  | <u> </u>     |  |    |       | 81       |  |  | <u> </u> | -  | ├-       | ├            | ┢            | ╀        |
|          | 32                         | ╙  |  | _  | <u> </u>   | _              |              | <u> </u>   | _            |  |    |       | 82       | _  | _  | L        |  | <u> </u> | ├            | ├-           | ⊢        |
|          | 3B                         | oxdot  |  | _  | <u> </u>   | <u> </u>       | _            | <u> </u>   | <u> </u>     |  |    |       | 83       | _  |  | ┡        | ┞  | -        | ├            | <del> </del> | ╁        |
|          | 34                         | <u> </u>   |  | <u> </u>   | _  |                | _            | <u> </u>   | -            | _  |    |       | 84       |  | _  | -        | -  | H        | 1            | <u> </u>     | ⊢        |
|          | 35<br>36<br>37             | <u> </u>   |  |  | ├  | <del> </del>   | <u> </u>     | <u> </u>   | <u> </u>     | -  |    |       | 85       | H  | _  | -        | ╀  | ⊢        | ⊢            | ┼            | ┾        |
| ļ        | 36                         | ⊢  | _  | -  | -  |                |              | -  | -            | <u> </u>   | -  |       | 86<br>87 | -  |  | ┢        | ┢  | ├        | ╁            | ╁            | ╁        |
| -        | 3/                         | ├—   |  | ├—   | $\vdash$   | <del> </del>   | <del> </del> | ⊢  | ⊢            | ├  | 1  |       | 88       | $\vdash$   |  | ├─       | ╁  | ⊢        | ⊢            | ┢            | ╁        |
|          | 3B                         |  | H  |  | -  | -              |              | -  | ├            | -  | 1  |       | 89       | <del> </del>                                     |  | ┢        | ┢  | -        | ⊢            | ╫            | ╁        |
| -        | 39<br>40                   | 7  | ├  |  | -  | -              | -            | ⊢  | $\vdash$     | ⊢  | 1  |       | 90       | ├  |  | ⊢        | ├  | ┢        | ╁            | ┢            | ╁        |
| -        | 41                         |  | ┝  | ├  | -  | ├              |              | ⊢  | ⊢            | ├  | 1  |       | 91       |  | -  | ┢        | -  | $\vdash$ | ╁            | ╁            | ╁        |
| -        | 42                         | 1  | -  | $\vdash$   | ⊢  |                | -            | -  |              | <del> </del>                                     | 1  |       | 92       | ├  | _  | ⊢        | ⊢  | ┢╾       | ╁            | ╁            | ╆        |
| -        | 43                         | 7  |  | ⊢  | ⊢  | ⊢              | ├            | ⊢  | ├            | ┢  | ł  |       | 93       | <del>                                     </del> | _  | -        | ╁╌   | $\vdash$ | ╁            | ╁            | ╁        |
| <b>-</b> | 44                         | Ž  | $\vdash$   | ⊢  | ├  | -              | -            | -  | ┢            | ├  | 1  |       | 94       | ╁  | $\vdash$   |          | ├  | ╁        | +            | ┢            | ╁        |
|          | 45                         | 1  | $\vdash$   | -  | $\vdash$   | <del>  -</del> | $\vdash$     | <del> </del>                                     | $\vdash$     | ╁  | 1  |       | 95       | $\vdash$   | $\vdash$   | -        | 1  | $\vdash$ | $\vdash$     | 1            | t        |
| _        | 46                         | 1  | <del>-</del>                                     | $\vdash$   | <del> </del>                                     | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$     | -  |    |       | 96       | ┢  | ┢╌   | $\vdash$ | $\vdash$   | †-       | +            | <del> </del> | +        |
| -        | 47                         | 1  | <del>-</del>                                     | $\vdash$   | $\vdash$   | 1              | $\vdash$     | <del>                                     </del> | <del> </del> | <del>                                     </del> | 1  | -     | 97       | Н  | <del> </del>                                     | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | 1            | +        |
| $\vdash$ | 48                         | ┯  |  | 1  |  | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$     | +  | 1  | -     | 98       |  | $\vdash$   | $\vdash$ | †  | T        |              | 1            | $\vdash$ |
| -        | 49                         | $\vdash$   | $\vdash$   | <del>                                     </del> | <del>                                     </del> |                | ┢            | 1  | $\vdash$     | +-   | 1  |       | 99       | Ι-   | <del>                                     </del> | ┢        | <del>                                     </del> | T        | 1-           | t            | †        |
| -        | 50                         | <del>                                     </del> | <del>                                     </del> | _  | <del>                                     </del> | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$   | 1  |       | 100      | Ι-   |  | T        | 1  | T        | $t^-$        | $t^-$        | $\vdash$ |
| L        | , 50                       |  | Ц.   | L  | —  | L              | ь            | ь.   |              |  | ار |       |          |  |  |          | <u> </u>   | _        | <del>'</del> |              | -        |

| Cla      | aim                              |          |          |          |          | ate                                       | <u> </u>     |          |          | -        |
|----------|----------------------------------|----------|----------|----------|----------|---|--------------|----------|----------|----------|
| - 016    |                                  |          |          |          | Ť        |   |              |          |          |          |
| ā        | Original                         |          |          |          |          |   |              |          |          |          |
| Final    | ē                                |          |          |          |          |   | .            |          |          |          |
| -        | Ō                                |          |          |          |          |   |              |          |          |          |
| -        | 51                               |          |          | -        |          |   |              |          |          |          |
| <u> </u> | 51<br>52                         | _        |          | _        | -        |   |              | _        | $\dashv$ |          |
| -        | 52                               |          |          | _        | _        | -   | -            | -        |          |          |
| <u> </u> | 54                               | _        |          | _        |          | _   |              |          | -        |          |
|          | 53<br>54<br>55                   |          | -        | -        |          |   | -            | -        | -        |          |
| <b></b>  | 56                               |          |          | _        |          |   |              |          |          |          |
| <b>—</b> | 56<br>57                         |          |          |          |          |   | $\dashv$     |          |          |          |
| -        | 58                               |          |          |          |          | -   |              |          |          |          |
| <u> </u> | 50                               |          |          |          | -        | _   | $\vdash$     |          |          |          |
| -        | 59<br>60                         |          |          |          |          | _   |              | _        | $\dashv$ |          |
|          | 61                               |          |          |          |          |   |              | _        | -        | _        |
|          | 60                               |          |          | _        |          | _   |              |          |          |          |
| -        | 62<br>63                         |          |          | <u> </u> | -        | -   | H            |          | Н        |          |
| $\vdash$ | 64                               |          |          | $\vdash$ | $\vdash$ | $\vdash$                                  | $\vdash$     | _        | Н        |          |
| <u> </u> | 64<br>65                         |          |          |          |          | $\vdash$                                  |              | _        | $\vdash$ |          |
| -        | 00                               |          |          |          | $\vdash$ |   | _            |          |          |          |
| <u> </u> | 66                               |          | ۳        | H        | <u> </u> | <b> -</b> -                               | Н            |          | Н        |          |
| <u></u>  | 67<br>68                         |          | <u> </u> | <u> </u> | <u> </u> | <b>-</b>                                  | H            |          | $\vdash$ |          |
| <u> </u> | 68                               | <u> </u> | <u> </u> | $\vdash$ | <u> </u> | <u> </u>                                  | Н            |          |          |          |
|          | 69                               | _        | _        |          | <u> </u> | _   | -            |          |          |          |
|          | 70<br>71                         |          |          | -        | <u> </u> | _   |              |          |          |          |
|          | 71                               |          | _        |          | _        | _   |              |          |          |          |
|          | 72                               |          | _        | _        | L        | <u> </u>                                  |              |          |          |          |
|          | 72<br>73<br>74<br>75<br>76<br>77 |          |          | _        | _        |   |              |          |          |          |
|          | 74                               |          | L_       | _        | <u> </u> |   |              |          |          |          |
|          | 75                               | Ш        |          |          |          |   | $oxed{oxed}$ | _        |          |          |
|          | 76                               |          |          |          |          | L.  |              |          |          |          |
|          | 77                               |          |          |          |          |   | <u> </u>     | _        |          |          |
|          | 78<br>79                         |          | _        | L        |          | L_  | <u> </u>     |          | -        |          |
|          | 79                               |          |          | _        |          | <u> </u>                                  |              | -        | $\vdash$ |          |
|          | 80                               |          |          |          | L_       |   |              | _        |          |          |
|          | 81<br>82                         | L        | <u> </u> | <u> </u> | <u> </u> | <u> </u>                                  | <u> </u>     | <u> </u> | <u> </u> | L.       |
| L        | 82                               | L        | L_       | L        | _        |   | <u> </u>     | L        |          | <u> </u> |
|          | 83                               |          |          | L        | <u> </u> | <u> </u>                                  |              |          | <u> </u> |          |
|          | 84                               | <u> </u> | $\perp$  | <u> </u> | <u> </u> | <u> </u>                                  | <u> </u>     |          | <u>L</u> | <u> </u> |
|          | 85                               | _        | <u> </u> | _        | <u> </u> | <u> </u>                                  | <u> </u>     | <u> </u> | <u> </u> | L_       |
|          | 86                               | <u>_</u> |          | <u> </u> |          | _   | <u> </u>     | L_       | L_       | _        |
|          | 87                               | _        | <u> </u> | <u> </u> | <u> </u> | <u> </u>                                  | <u> </u>     | <u> </u> | <u> </u> | <u> </u> |
|          | 88                               | _        | _        | _        |          |   |              | L        |          | L.       |
|          | 89_                              | <u>_</u> |          | <u> </u> | L_       | <u> </u>                                  |              |          | <u> </u> | <u> </u> |
|          | 90                               | <u> </u>                                  |              | <u> </u> | <u></u>  | <u> </u> |
|          | 91                               | <u> </u> | <u> </u> | <u> </u> | <u> </u> |   | _            | <u> </u> | <u> </u> |          |
|          | 92                               | L        | L        | <u> </u> | <u></u>  | <u> </u>                                  |              |          | L        | <u> </u> |
|          | 93                               |          |          | _        | L_       | _   | _            | L.       |          | <u> </u> |
|          | 94                               |          |          |          | <u> </u> | $oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$ |              |          |          |          |
|          | 95                               |          | Ĺ        |          |          |   | Ĺ            |          | <u> </u> | <u> </u> |
|          | 96                               |          |          |          |          | 匚   |              |          |          |          |
|          | 97                               |          |          |          |          |   |              | Ĺ        | L        | Ĺ        |
|          | 98                               | Ĺ        |          |          |          |   |              |          |          | Ĺ        |
|          | 99                               |          |          |          |          |   |              |          |          |          |
|          | 100                              |          |          |          |          |   |              |          |          |          |

| Cla     | aim  | Date           |           |                |              |  |  |              |          |                 |
|---------|--|----------------|-----------|----------------|--------------|--|--|--------------|----------|-----------------|
|         |  |                |           |                | Ī            |  |  |              |          | $\sqcap$        |
| Final   | Original   |                |           |                |              |  |  |              |          |                 |
|         |  |                |           |                |              |  |  |              |          |                 |
|         | 101  |                |           |                |              |  |  |              |          |                 |
|         | 102  |                |           |                |              |  |  |              |          |                 |
|         | 103  |                |           |                |              |  | _  |              |          | Ш               |
|         | 101<br>102<br>103<br>104                             |                |           |                |              |  |  |              |          |                 |
|         | 105<br>106<br>107                                    |                |           |                |              |  |  |              |          | Ш               |
|         | 106  |                | _         |                |              |  |  |              |          |                 |
|         | 107  |                | _         |                |              |  |  |              |          |                 |
|         | 108<br>109   |                | <u> </u>  |                |              | -  | _  |              |          | Н               |
|         | 109  |                |           |                |              |  |  |              |          | Н               |
|         | 110<br>111   |                |           | _              |              | <u> </u>   |  | _            | _        | Н               |
|         | 111  | <u> </u>       |           | $\vdash$       |              |  |  |              | -        | Н               |
| -       | 112  | ├              |           | <u> </u>       | H            | <b> </b>   | <b></b> -  | -            | -        | $\vdash \vdash$ |
|         | 112<br>113<br>114<br>115                             | <u> </u>       | <u> </u>  |                | -            | H  | <u> </u>   | $\vdash$     | H        | $\vdash \vdash$ |
| _       | 114  | $\vdash$       |           |                | <del> </del> |  | <u> </u>   | $\vdash$     | H        | Н               |
|         | 115  | $\vdash$       | <u> </u>  | -              |              | -  | -  | $\vdash$     | $\vdash$ | $\vdash \vdash$ |
|         | 116<br>117<br>118                                    | <del> </del>   | -         |                | $\vdash$     | <u> </u>   | $\vdash$   | ├-           |          | $\vdash \vdash$ |
|         | 117  | ├─             | <u> —</u> | <del>  -</del> | $\vdash$     | $\vdash$   | -  |              | -        | $\vdash \vdash$ |
|         | 110  | -              |           | <u> </u>       | H            | ⊢  | ├  |              | -        | Н               |
|         | 119  | <u> </u>       | -         | ├              | <del> </del> | $\vdash$   | ⊢  | $\vdash$     | ┢        | Н               |
|         | 120  | <del> </del> — |           | _              | _            | _  | ┝  | -            | -        | $\vdash$        |
| _       | 122  | -              |           | $\vdash$       | ⊢            | ⊢  |  | -            | H        | Н               |
|         | 122  | -              |           | -              | -            | ┝  |  | H            | -        | -               |
|         | 119<br>120<br>121<br>122<br>123<br>124<br>125<br>126 |                |           | ├              |              | $\vdash$   | _  | -            |          | H               |
|         | 124  | -              | -         | -              |              | -  | -  | -            |          | $\vdash$        |
|         | 126  | -              | -         |                |              |  |  | _            | -        | Н               |
| -       | 127  | -              | -         | -              |              | $\vdash$   | ┝╌   | -            | -        | Н               |
|         | 128  | $\vdash$       | -         | $\vdash$       |              |  |  |              | -        | H               |
|         | 129  | <del> </del>   | -         | -              | _            |  |  | ┢            | -        |                 |
|         | 127<br>128<br>129<br>130<br>131<br>132               | -              |           | _              | -            |  |  | ┢            | -        | Н               |
|         | 131  | -              | -         |                |              |  |  | $\vdash$     | 1-       | Н               |
|         | 132  |                |           |                |              | ┢  | <del>                                     </del> | <del> </del> | 1        | H               |
|         | 133  |                |           |                | $\vdash$     | <del>                                     </del> | -  |              |          | Н               |
|         | 133<br>134   | T              | Г         | t              |              | $\vdash$   | <b>!</b>   | T            | † · · ·  | Н               |
| <b></b> | 135  | Т              |           | 1              |              |  | $\Box$   | $\vdash$     | Г        | П               |
|         | 135<br>136   |                |           |                |              |  |  | Τ            | 1        | П               |
|         | 137  |                | 1         |                |              |  | Ι  | T -          |          | П               |
|         | 138  | Ι              |           | П              | · ·          |  |  |              |          | П               |
|         | 138<br>139   |                |           |                |              |  |  |              |          |                 |
|         | 140  |                | L         |                |              |  |  |              |          |                 |
|         | 141  |                |           |                |              |  | Ė  |              |          | П               |
|         | 142  |                |           |                |              |  |  |              |          |                 |
|         | 143  |                |           |                |              |  |  |              |          |                 |
|         | 144  |                |           |                |              |  |  |              |          |                 |
|         | 145  |                |           |                |              |  |  |              |          |                 |
|         | 146  |                |           |                |              |  |  |              |          |                 |
|         | 147  |                |           |                |              |  |  |              |          |                 |
|         | 148  |                |           |                |              |  |  |              |          |                 |
|         | 149  |                |           |                |              |  |  |              |          |                 |
|         | 150  |                |           |                |              |  |  |              |          |                 |
|         |  |                |           |                | -            | •  |  |              |          |                 |